CIHM
Microfiche
Series
(Monographs)

ICMH
Collection de
microfiches
(monographies)

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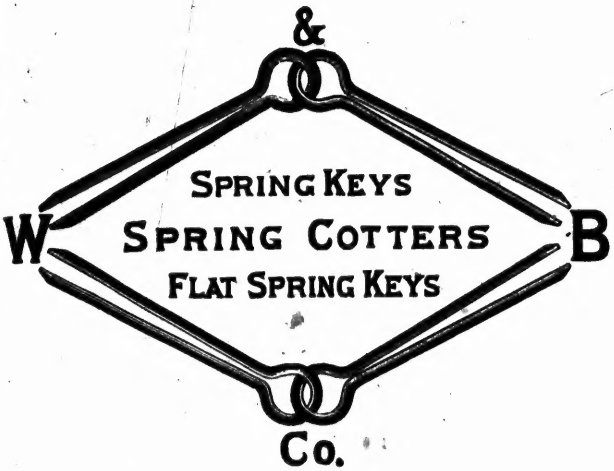
1884.

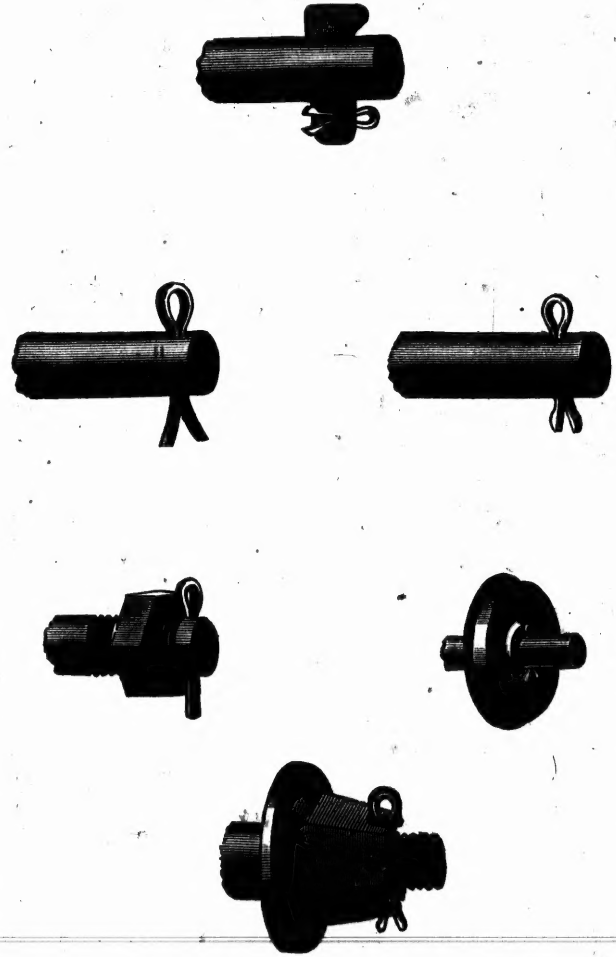
PRICE LIST



The Whitman & Barnes Mfg. Co.

September 1st, 1884.

THIS LIST IS INTENDED TO TAKE THE PLACE OF ALL OTHERS PREVIOUSLY ISSUED. THEY SHOULD BE DESTROYED.



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SPECIAL.

The Keys and Cotters herein given are all manufactured at our Works in Syracuse, N. Y., and as the demand for the various sizes is limited in Canada, we keep at St. Catharines, Ont., all sizes of Spring Keys as shown on Pages 6 and 7, and of Spring Cotters we carry a Stock of the following sizes, viz.: 3-32 x $\frac{3}{4}$, No. 30; 3-32 x 1, No. 31; $\frac{1}{8}$ x 1, No. 32; $\frac{1}{8}$ x $1\frac{1}{4}$, No. 33; 3-16 x $1\frac{1}{4}$, No. 34; 3-16 x $1\frac{1}{2}$, No. 35; $\frac{1}{4}$ x $1\frac{3}{4}$, No. 36; $\frac{1}{4}$ x 2, No. 37; 5-16 x 2, No. 38; 5-16 x $2\frac{1}{2}$, No. 39, *and can supply any size not mentioned on short notice at additional cost of Freight or Express on small lots. Flat Spring Keys we do not keep in stock here, as the demand is for "special sizes" and very limited, but can supply on short notice.*

For quantity Discounts for Spring Keys see Page 5.
" " " for Spring Cotters see Page 9.
" " " for Flat Keys see Page 41.

THE WHITMAN & BARNES MFG. CO.,

ST. CATHARINES, ONT.

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The Keys and Cotters herein given are all manufactured at our works in Syracuse, N. Y. We keep in stock all of these Keys and Cotters, and can furnish any special sizes on short notice.

THE WHITMAN & BARNES MFG. CO.,

AKRON, O. SYRACUSE, N. Y.

CANTON, O. ST. CATHARINES, Ont.

NEW ENGLAND AGENCY:

No. 32 South Market Street, BOSTON, Mass.

NUTS.

It is estimated that there are in the United States over 400,000 railway cars of all kinds; also, 16,000 engines. These engines and cars in traveling over the road, lose annually between four and five million of nuts. These will weigh over 1,500,000 lbs., and their cost is between $30,000 and $40,000, and this loss is continued from year to year, saying nothing of the nuts thrown into the scrap heap, with their bolts worthless from the use of the jam nut; also, the liability to accident from loose nuts.—*Scientific American*, Aug. 30, 1879.

To avoid this enormous waste, we have for years supplied many of the various railroad companies and locomotive and car builders, with all kinds and sizes of Spring Keys and Cotters, which we keep in stock or manufacture to order as they may be required.

THE WHITMAN & BARNES MFG. CO.

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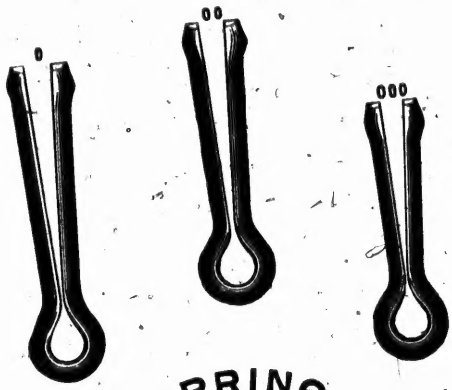
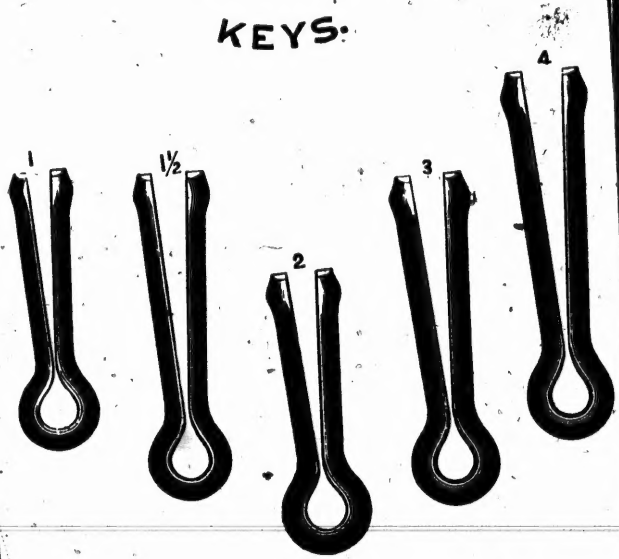
G. Co.

SPRING KEYS.



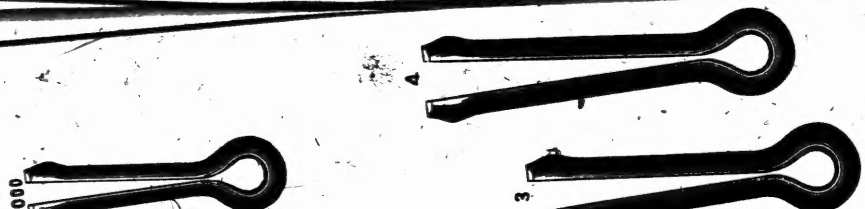
SPRING KEYS.



SPRING KEYS.

No.	000	are	12	wire gauge for	$\frac{7}{32}$	in. hole in	$\frac{5}{8}$	bolts, $5 00	per M.
"	00	"	12	"	$\frac{7}{32}$	"	$\frac{3}{4}$	" 5 50	"
"	0	"	12	"	$\frac{7}{32}$	"	$\frac{7}{8}$	" 6 00	"
"	1	"	11	"	$\frac{1}{4}$	"	$\frac{5}{8}$	" 6 50	"
"	1½	"	11	"	$\frac{1}{4}$	"	$\frac{7}{8}$	" 6 75	"
"	2	"	10	"	$\frac{9}{32}$	"	$\frac{5}{8}$	" 7 00	"
"	3	"	10	"	$\frac{9}{32}$	"	$\frac{7}{8}$	" 7 50	"
"	4	"	10	"	$\frac{9}{32}$	"	1	" 8 00	"

The Keys are made of spring wire, in special dies, and are nubbed on the end to prevent their dropping out after being sprung in. Being adapted to all uses that keys are generally put to, we make no other sizes than those given above, a full stock of which we always carry.



We make liberal discounts from the foregoing prices to the Trade, and on orders for large quantities.

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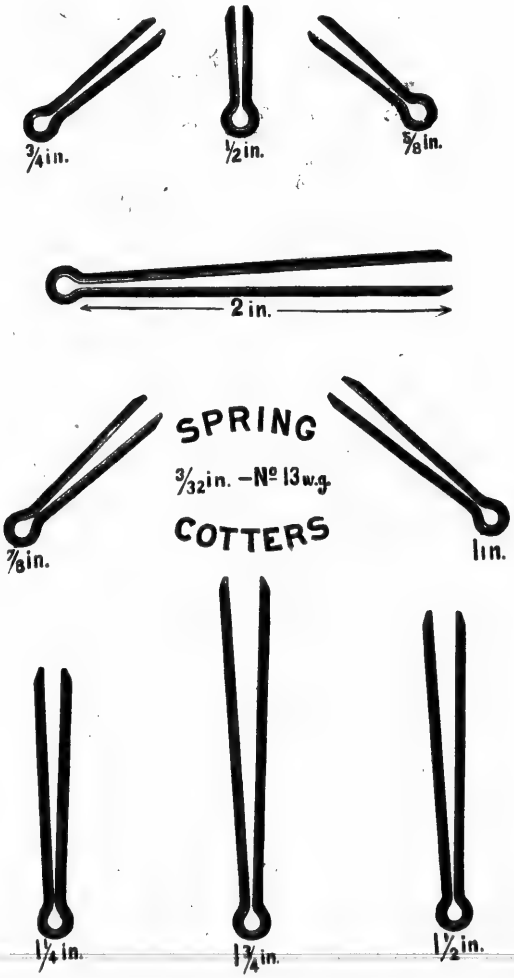
SPRING COTTERS.


3/4 in.
1/2 in.
5/8 in.
2 in.
SPRING
3/32 in. – No 13 w.g.
COTTERS
7/8 in.
1 in.
1 1/4 in.
1 3/4 in.
1 1/2 in.

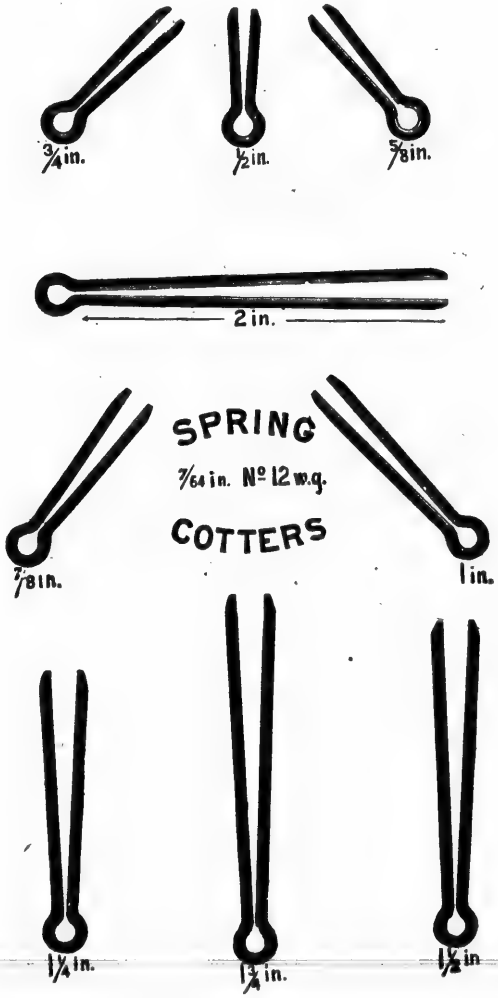
SPRING COTTERS.

$\frac{3}{32}$-Inch Wire—No. 13 Wire Gauge.

$\frac{3}{32} \times \frac{7}{16}$,	$3 00	per M.
$\frac{3}{32} \times \frac{1}{2}$,	3 00	"
$\frac{3}{32} \times \frac{5}{8}$,	3 25	"
$\frac{3}{32} \times \frac{3}{4}$,	3 50	"
$\frac{3}{32} \times \frac{7}{8}$,	3 75	"
$\frac{3}{32} \times 1$,	4 00	"
$\frac{3}{32} \times 1\frac{1}{4}$,	4 25	"
$\frac{3}{32} \times 1\frac{1}{2}$,	4 75	"
$\frac{3}{32} \times 1\frac{3}{4}$,	5 25	"
$\frac{3}{32} \times 2$,	5 75	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
1/2 in.
5/8 in.
2 in.
SPRING
7/64 in. No 12 w.g.
COTTERS
7/8 in.
1 in.
1 1/4 in.
1 3/4 in.
1 1/2 in

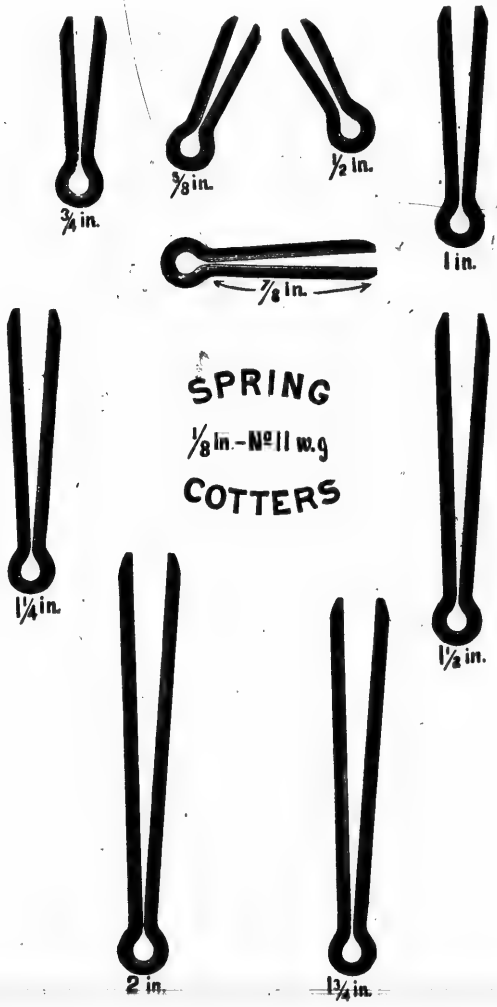
SPRING COTTERS.

$\frac{7}{64}$-Inch Wire—No. 12 Wire Gauge.

$\frac{7}{64} \times \frac{1}{2}$,	$3 25 per M.
$\frac{7}{64} \times \frac{5}{8}$,	3 50 "
$\frac{7}{64} \times \frac{3}{4}$,	3 75 "
$\frac{7}{64} \times \frac{7}{8}$,	4 00 "
$\frac{7}{64} \times 1$,	4 25 "
$\frac{7}{64} \times 1\frac{1}{4}$,	4 75 "
$\frac{7}{64} \times 1\frac{1}{2}$,	5 25 "
$\frac{7}{64} \times 1\frac{3}{4}$,	5 75 "
$\frac{7}{64} \times 2$,	6 25 "

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
5/8 in.
1/2 in.
1 in.
7/8 in.
SPRING
1/8 in.-No 11 w.g
COTTERS
1 1/4 in.
1 1/2 in.
2 in.
1 3/4 in.

1 in.

1½ in.

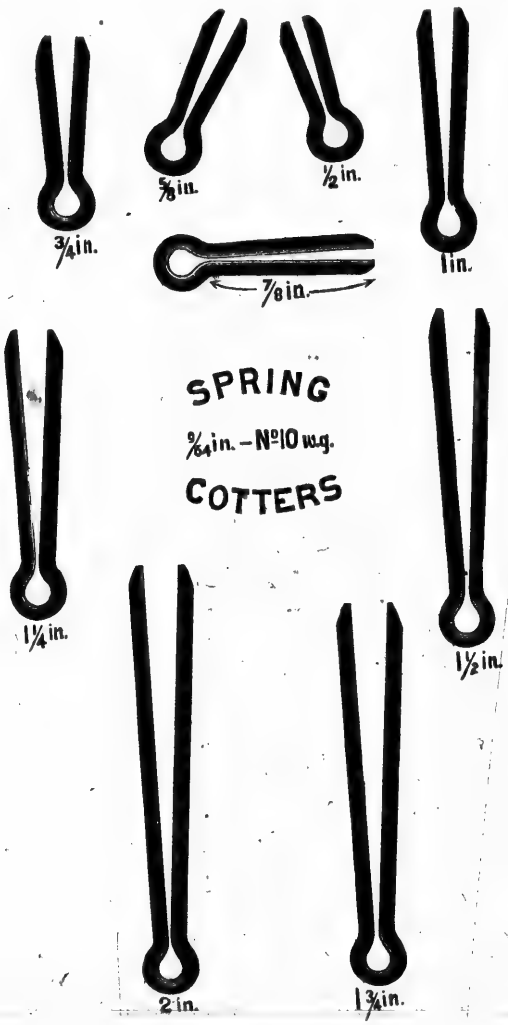
SPRING COTTERS.

⅛-Inch Wire—No. 11 Wire Gauge.

⅛ × ½,	$3 50	per M.
⅛ × ⅝,	3 75	"
⅛ × ¾,	4 00	"
⅛ × ⅞,	4 25	"
⅛ × 1,	4 50	"
⅛ × 1¼,	5 00	"
⅛ × 1½,	5 50	"
⅛ × 1¾,	6 00	"
⅛ × 2,	6 50	"
⅛ × 2¼,	7 25	"
⅛ × 2½,	8 00	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
5/8 in.
1/2 in.
1 in.
7/8 in.
SPRING
9/64 in. – No 10 w.g.
COTTERS
1 1/4 in.
1 1/2 in.
2 in.
1 3/4 in.

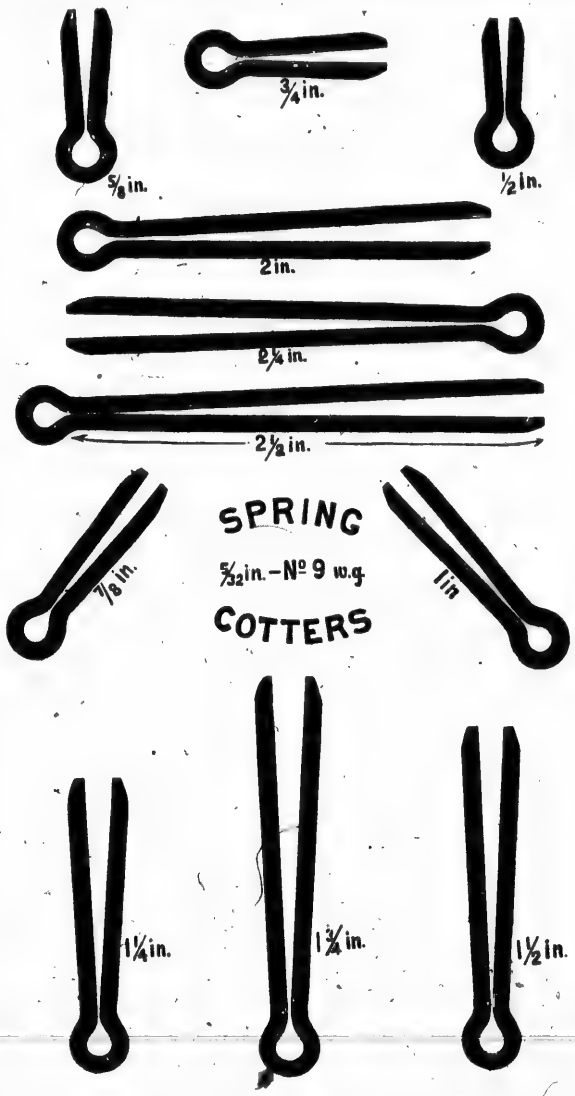
SPRING COTTERS.

$\frac{9}{64}$-Inch Wire—No. 10 Wire Gauge.

$\frac{9}{64} \times \frac{1}{2}$,	$3 75 per M.
$\frac{9}{64} \times \frac{5}{8}$,	4 00 "
$\frac{9}{64} \times \frac{3}{4}$,	4 25 "
$\frac{9}{64} \times \frac{7}{8}$,	4 50 "
$\frac{9}{64} \times 1$,	4 75 "
$\frac{9}{64} \times 1\frac{1}{4}$,	5 25 "
$\frac{9}{64} \times 1\frac{1}{2}$,	6 00 "
$\frac{9}{64} \times 1\frac{3}{4}$,	6 75 "
$\frac{9}{64} \times 2$,	7 50 "
$\frac{9}{64} \times 2\frac{1}{4}$,	8 25 "
$\frac{9}{64} \times 2\frac{1}{2}$,	9 00 "

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
5/8 in.
1/2 in.
2 in.
2 1/4 in.
2 1/2 in.
SPRING
5/32 in.-No 9 w.g.
COTTERS
7/8 in.
1 in
1 1/4 in.
1 3/4 in.
1 1/2 in.

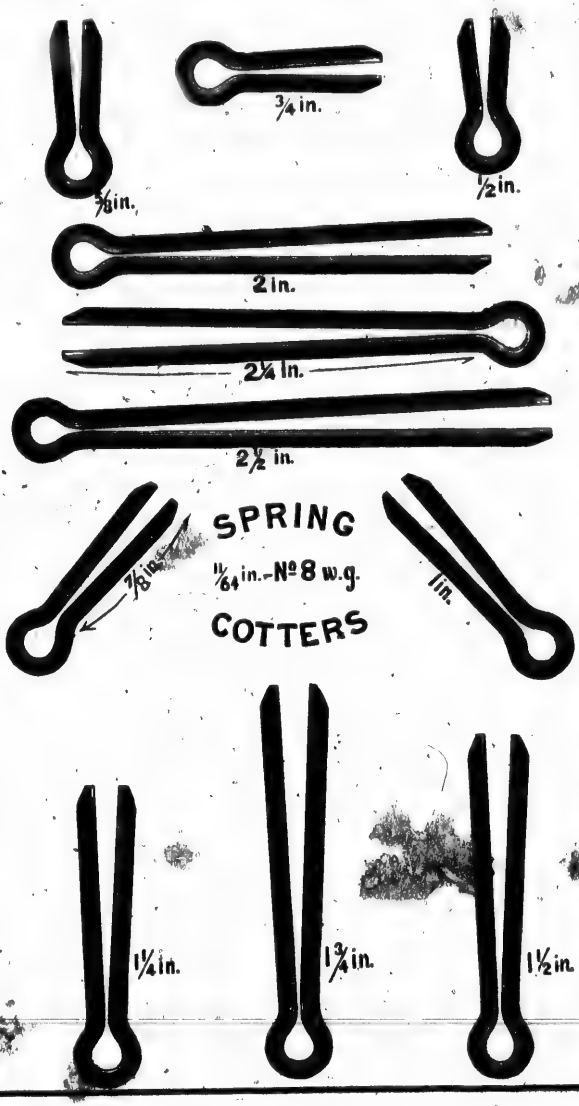
SPRING COTTERS.

$\frac{5}{32}$-Inch Wire—No. 9 Wire Gauge.

$\frac{5}{32} \times \frac{1}{2}$,	$4 00 per M.
$\frac{5}{32} \times \frac{5}{8}$,	4 25 "
$\frac{5}{32} \times \frac{3}{4}$,	4 50 "
$\frac{5}{32} \times \frac{7}{8}$,	4 75 "
$\frac{5}{32} \times 1$,	5 00 "
$\frac{5}{32} \times 1\frac{1}{4}$,	5 50 "
$\frac{5}{32} \times 1\frac{1}{2}$,	6 25 "
$\frac{5}{32} \times 1\frac{3}{4}$,	7 00 "
$\frac{5}{32} \times 2$,	7 75 "
$\frac{5}{32} \times 2\frac{1}{4}$,	8 50 "
$\frac{5}{32} \times 2\frac{1}{2}$,	9 50 "

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the eye.


3/4 in.
5/8 in.
1/2 in.
2 in.
2 1/4 in.
2 1/2 in.
SPRING
11/64 in.-No 8 w.g.
COTTERS
7/8 in.
1 in.
1 1/4 in.
1 3/4 in.
1 1/2 in.

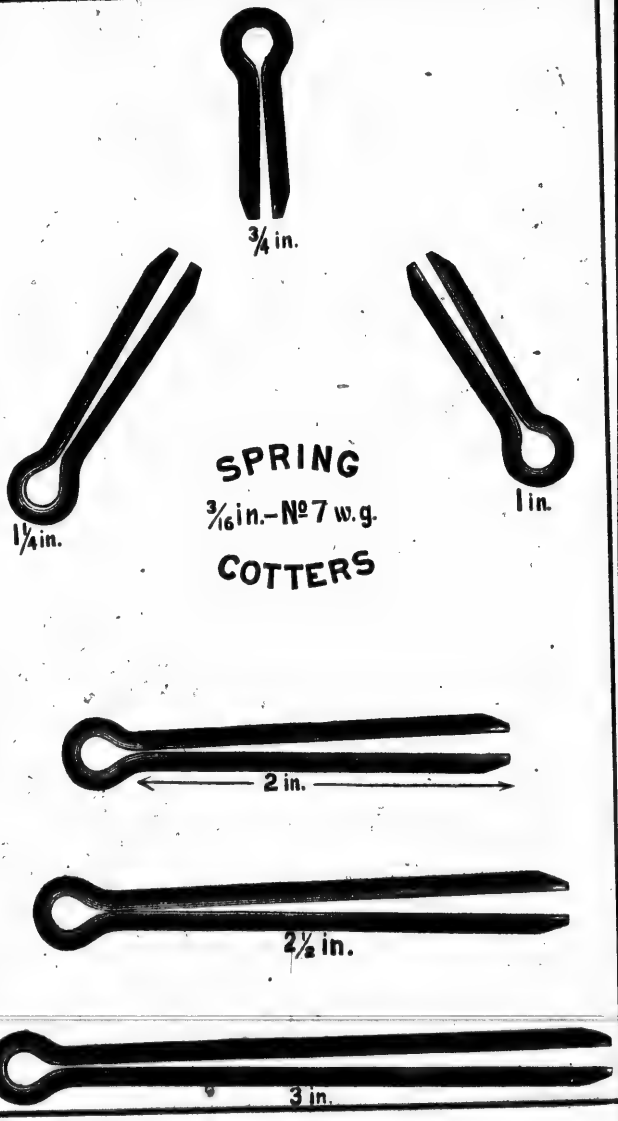
SPRING COTTERS.

11/64-Inch Wire—No. 8 Wire Gauge.

11/64 × ½,	$4 25	per M.
11/64 × ⅝,	4 50	"
11/64 × ¾,	4 75	"
11/64 × ⅞,	5 00	"
11/64 × 1,	5 50	"
11/64 × 1¼,	6 25	"
11/64 × 1½,	7 25	"
11/64 × 1¾,	8 25	"
11/64 × 2,	9 00	"
11/64 × 2¼,	10 00	"
11/64 × 2½,	11 00	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
1 1/4 in.
1 in.
SPRING
3/16 in.-No 7 w.g.
COTTERS
2 in.
2 1/2 in.
3 in.

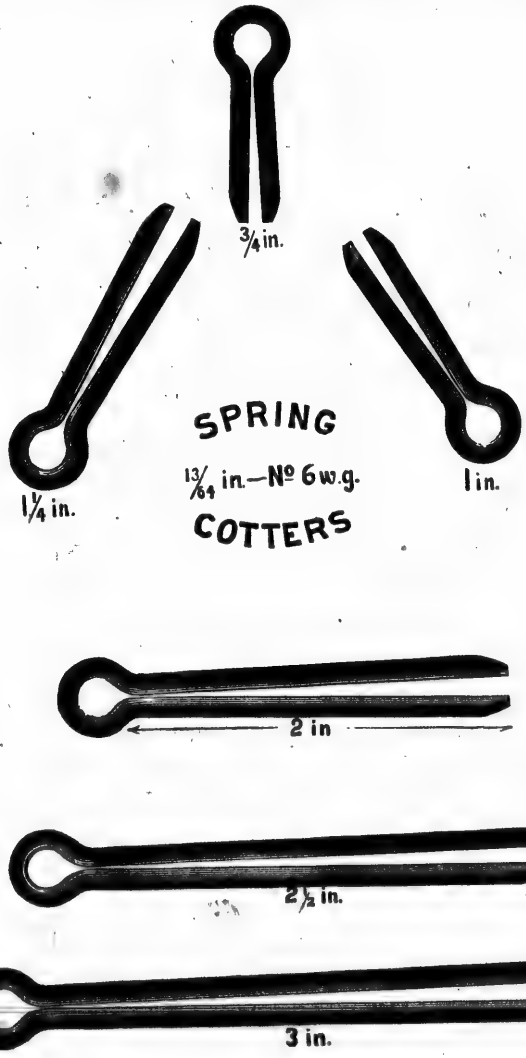
SPRING COTTERS.

$\frac{3}{16}$-Inch Wire—No. 7 Wire Gauge.

$\frac{3}{16} \times \frac{3}{4}$,	$5 00	per M.
$\frac{3}{16} \times \frac{7}{8}$,	5 50	"
$\frac{3}{16} \times 1$,	6 00	"
$\frac{3}{16} \times 1\frac{1}{4}$,	7 00	"
$\frac{3}{16} \times 1\frac{1}{2}$,	7 75	"
$\frac{3}{16} \times 1\frac{3}{4}$,	8 75	"
$\frac{3}{16} \times 2$,	9 50	"
$\frac{3}{16} \times 2\frac{1}{4}$,	10 50	"
$\frac{3}{16} \times 2\frac{1}{2}$,	11 50	"
$\frac{3}{16} \times 2\frac{3}{4}$,	12 50	"
$\frac{3}{16} \times 3$,	13 50	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


3/4 in.
1 1/4 in.
1 in.
SPRING
13/64 in.—No 6 w.g.
COTTERS
2 in
2 1/2 in.
3 in.

SPRING COTTERS.

$\frac{13}{64}$-Inch Wire—No. 6 Wire Gauge.

$\frac{13}{64} \times \frac{3}{4}$,	$5 50	per M.
$\frac{13}{64} \times \frac{7}{8}$,	6 00	"
$\frac{13}{64} \times 1$,	6 50	"
$\frac{13}{64} \times 1\frac{1}{4}$,	7 50	"
$\frac{13}{64} \times 1\frac{1}{2}$,	8 50	"
$\frac{13}{64} \times 1\frac{3}{4}$,	9 50	"
$\frac{13}{64} \times 2$,	10 50	"
$\frac{13}{64} \times 2\frac{1}{4}$,	11 75	"
$\frac{13}{64} \times 2\frac{1}{2}$,	12 75	"
$\frac{13}{64} \times 2\frac{3}{4}$,	14 00	"
$\frac{13}{64} \times 3$,	15 25	"

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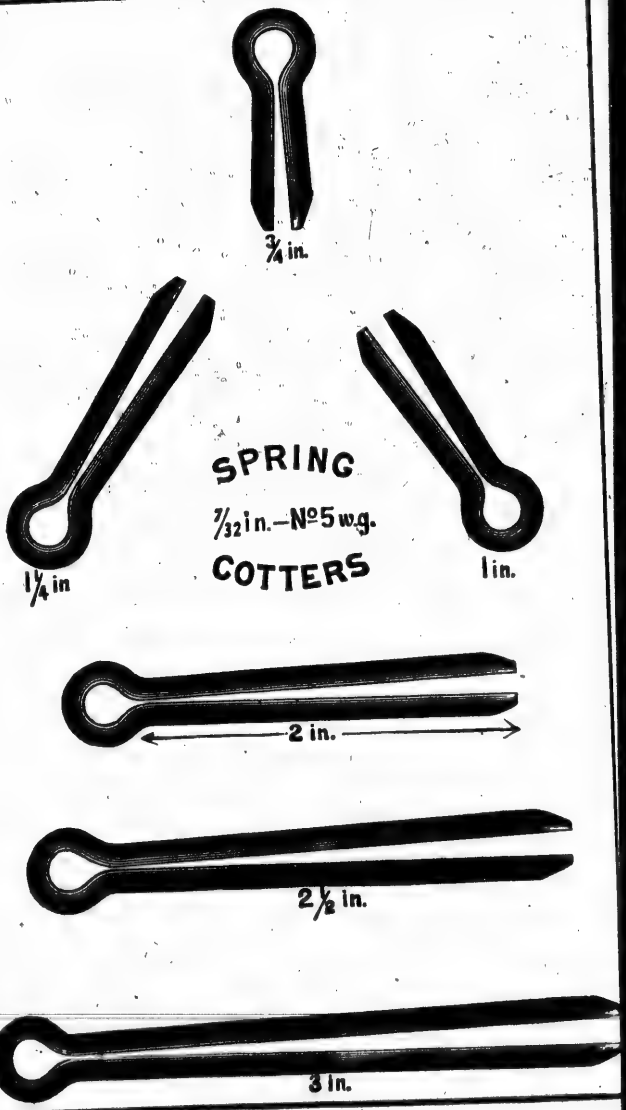
The length measurements given are from Point to Neck, or under the Eye.



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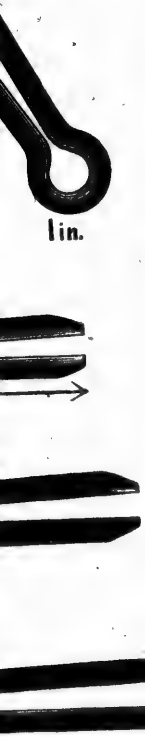


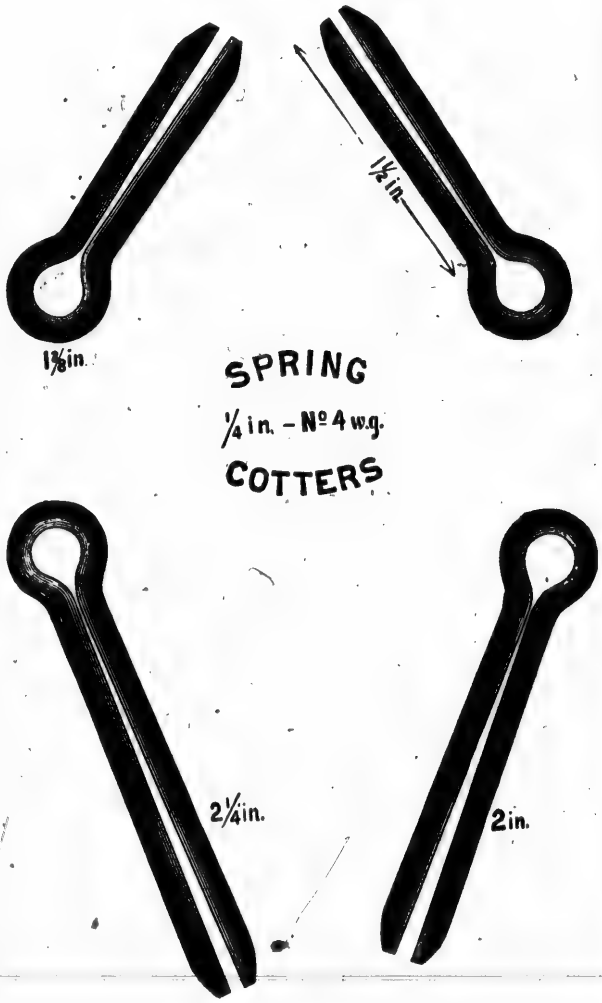
SPRING COTTERS.

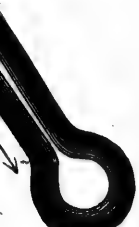
$\frac{7}{32}$-Inch Wire—No. 5 Wire Gauge.

$\frac{7}{32} \times \frac{3}{4}$,	$7 50	per M.
$\frac{7}{32} \times 1$,	8 00	"
$\frac{7}{32} \times 1\frac{1}{4}$,	9 00	"
$\frac{7}{32} \times 1\frac{1}{2}$,	10 00	"
$\frac{7}{32} \times 1\frac{3}{4}$,	11 25	"
$\frac{7}{32} \times 2$,	12 25	"
$\frac{7}{32} \times 2\frac{1}{4}$,	13 50	"
$\frac{7}{32} \times 2\frac{1}{2}$,	14 75	"
$\frac{7}{32} \times 2\frac{3}{4}$,	16 00	"
$\frac{7}{32} \times 3$,	17 25	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


1⅝in.
1½in.
SPRING
¼in. - No 4 w.g.
COTTERS
2¼in.
2in.



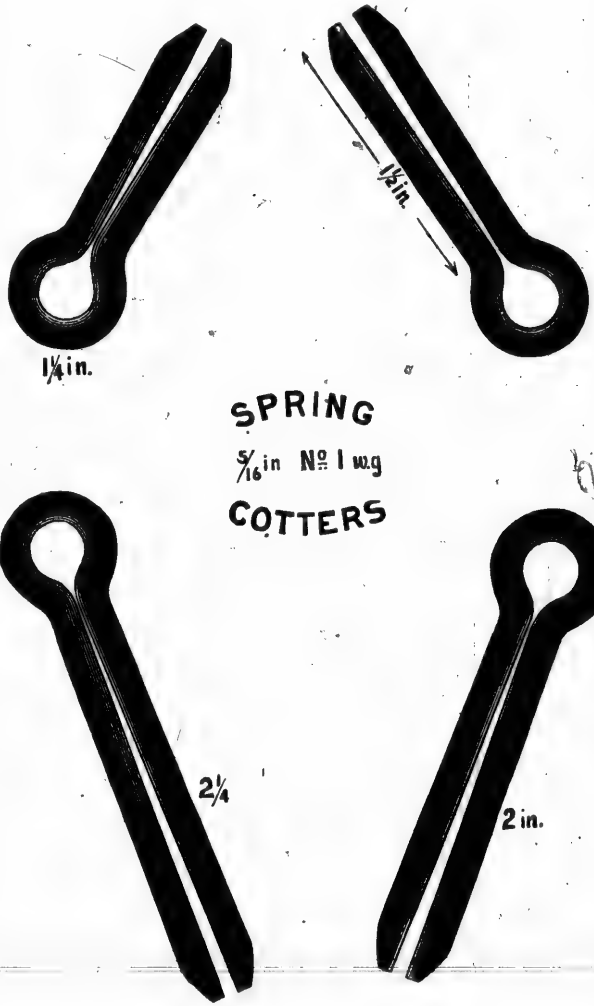
SPRING COTTERS.

¼-Inch Wire—No. 4 Wire Gauge.

¼ × 1,	$10 00	per M.
¼ × 1⅛,	10 50	"
¼ × 1¼,	11 00	"
¼ × 1⅜,	11 50	"
¼ × 1½,	12 00	"
¼ × 1⅝,	12 75	"
¼ × 1¾,	13 25	"
¼ × 2,	14 50	"
¼ × 2¼,	16 00	"
¼ × 2½,	17 50	"
¼ × 2¾,	18 75	"
¼ × 3,	20 00	"
¼ × 3½,	22 75	"
¼ × 4,	25 50	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


1¼ in.
1½ in.
SPRING
5/16 in No 1 w.g
COTTERS
2¼
2 in.

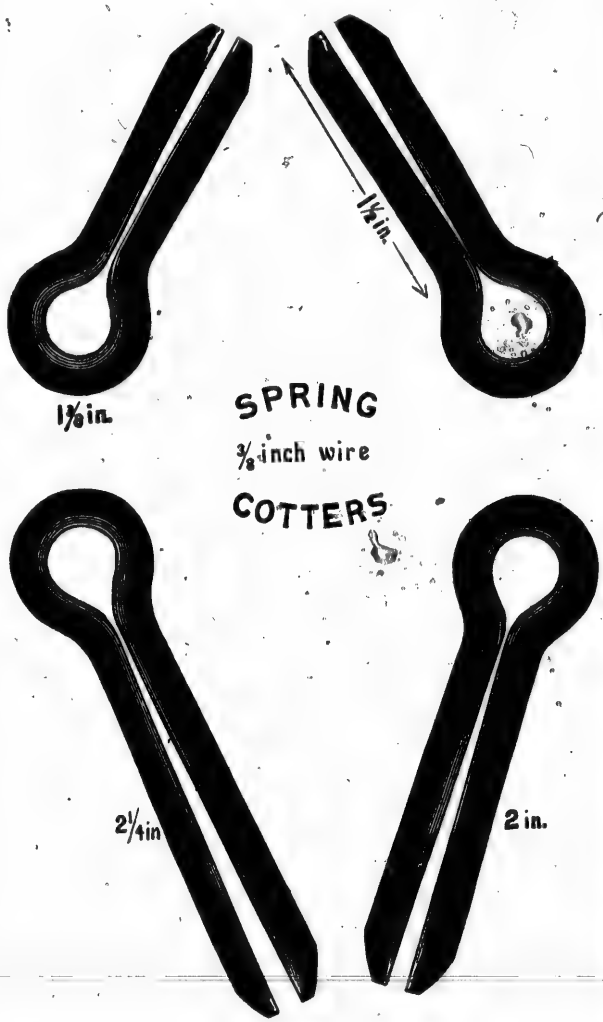
SPRING COTTERS.

$\frac{5}{16}$-Inch Wire—No. 1 Wire Gauge.

$\frac{5}{16} \times 1$,	$13 50	per M.
$\frac{5}{16} \times 1\frac{1}{4}$,	15 00	"
$\frac{5}{16} \times 1\frac{1}{2}$,	16 50	"
$\frac{5}{16} \times 1\frac{3}{4}$,	18 00	"
$\frac{5}{16} \times 2$,	19 50	"
$\frac{5}{16} \times 2\frac{1}{4}$,	21 00	"
$\frac{5}{16} \times 2\frac{1}{2}$,	22 50	"
$\frac{5}{16} \times 2\frac{3}{4}$,	24 50	"
$\frac{5}{16} \times 3$,	26 50	"
$\frac{5}{16} \times 3\frac{1}{2}$,	30 00	"
$\frac{5}{16} \times 4$,	33 00	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We keep in stock all the above lengths, and can make other sizes, if desired.

The length measurements given are from Point to Neck, or under the Eye.


1⅝ in.
1⅝ in.
SPRING
⅜ inch wire
COTTERS
2¼ in
2 in.

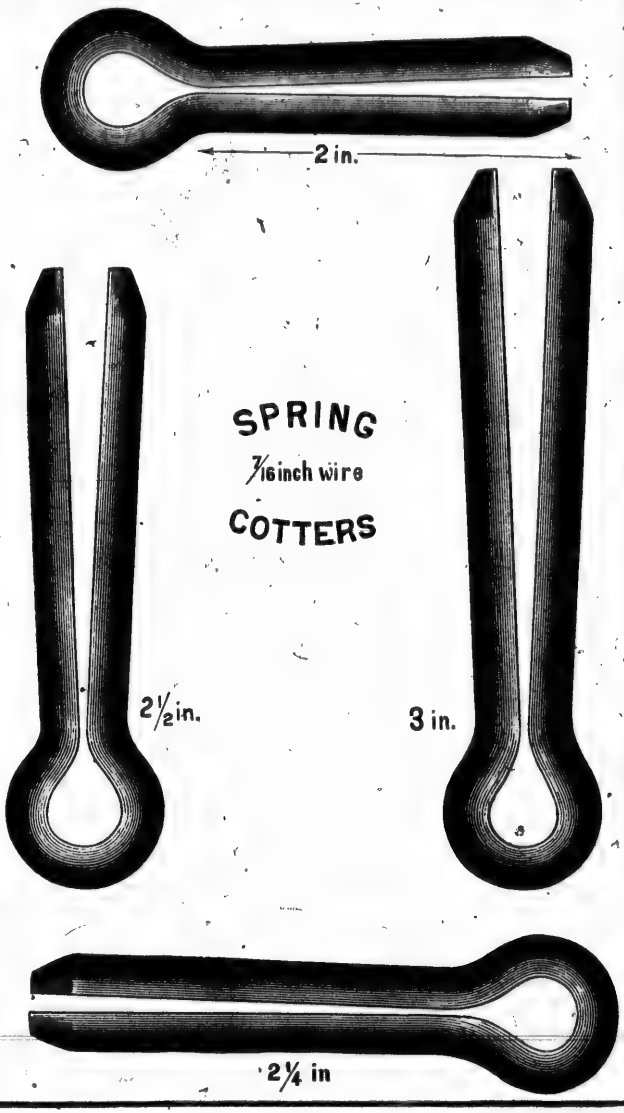
SPRING COTTERS.

3/8-Inch Wire.

3/8 × 1½,	$18 75	per M.
3/8 × 1¾,	20 50	"
3/8 × 2,	22 25	"
3/8 × 2¼,	24 00	"
3/8 × 2½,	25 75	"
3/8 × 2¾,	27 00	"
3/8 × 3,	28 75	"
3/8 × 3½,	32 50	"
3/8 × 4,	36 50	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We make all the above and other lengths to order upon short notice.

The length measurements given are from Point to Neck, or under the Eye.


2 in.
SPRING
7/16 inch wire
COTTERS
2 1/2 in.
3 in.
2 1/4 in

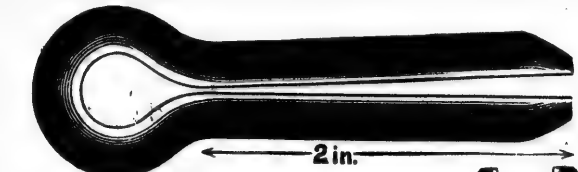
SPRING COTTERS.

$\frac{7}{16}$-Inch Wire.

$\frac{7}{16} \times 2$,	$29 00	per M.
$\frac{7}{16} \times 2\frac{1}{4}$,	31 50	"
$\frac{7}{16} \times 2\frac{1}{2}$,	34 00	"
$\frac{7}{16} \times 3$,	39 00	"
$\frac{7}{16} \times 3\frac{1}{2}$,	44 00	"
$\frac{7}{16} \times 4$,	49 00	"
$\frac{7}{16} \times 5$,	59 00	"
$\frac{7}{16} \times 6$,	69 00	"

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We make all the above and other lengths to order upon short notice.

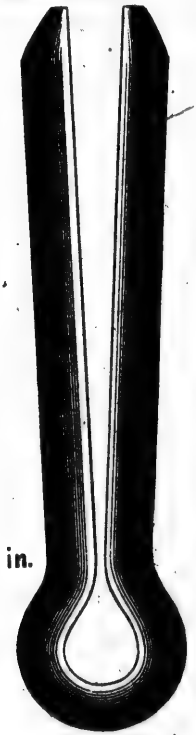
The length measurements given are from Point to Neck, or under the Eye.

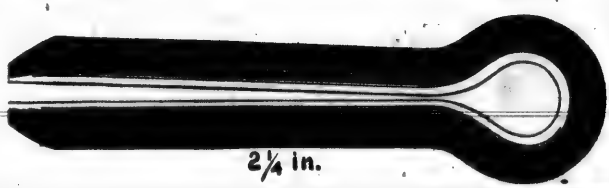


SPRING

½ inch wire

COTTERS





SPRING COTTERS.

½-Inch Wire.

½ × 2,	$35 00	per M.
½ × 2¼,	38 50	"
½ × 2½,	42 00	"
½ × 3,	49 00	"
½ × 3½,	56 00	"
½ × 4,	63 00	"
½ × 5,	77 00	"
½ × 6,	91 00	"

These Cotters are made of the best quality half-round spring wire, and are pointed by specially prepared machinery. We make all the above and other lengths to order upon short notice.

The length measurements given are from Point to Neck, or under the Eye.

5/8 :
5/8 :
5/8 :
5/8 :

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SPRING COTTERS.

5/8-Inch Wire.

5/8 × 3,	$75 00 per M.
5/8 × 4,	91 00 "
5/8 × 5,	107 00 "
5/8 × 6,	123 00 "

These Cotters are made of best quality half-round spring wire, and are pointed by specially prepared machinery. We make all the above and other lengths to order upon short notice.

The length measurements given are from Point to Neck, or under the Eye.

We make liberal discounts from the foregoing prices to the Trade, and on orders for large quantities.

We furnish quotations for, and manufacture to order, any sizes of Spring Cotters not herein given.

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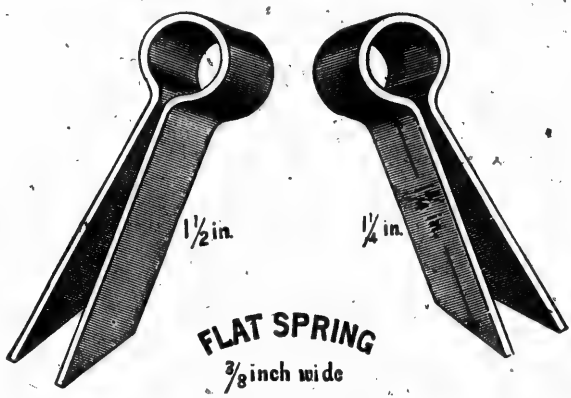
Flat Spring Keys.

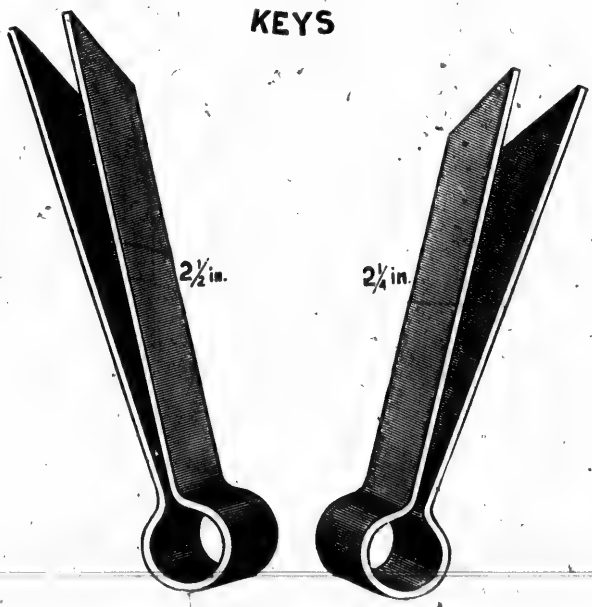


FLAT SPRING

⅜ inch wide

16 and 17 wire guage

KEYS



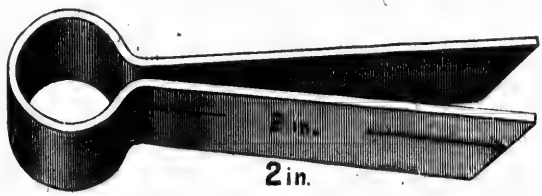
FLAT SPRING KEYS.

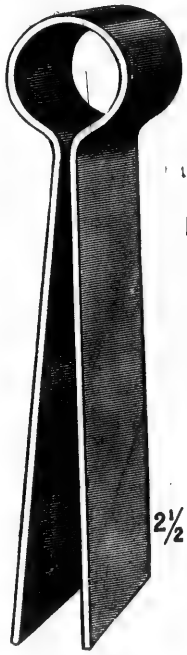
3/8 Inch Wide—16 and 17 Wire Gauge.

3/8 × 1¼,	$ 8 00	per M.
3/8 × 1½,	9 00	"
3/8 × 1¾,	10 00	"
3/8 × 2,	11 00	"
3/8 × 2¼,	12 00	"
3/8 × 2½,	13 00	"
3/8 × 2¾,	14 00	"
3/8 × 3,	15 00	"

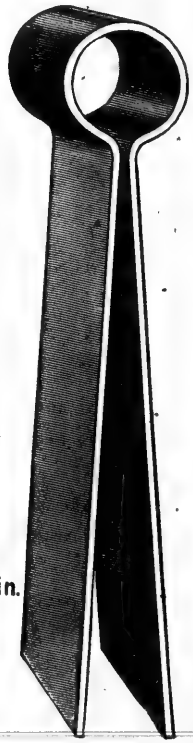
These Keys are made of best quality cold-rolled spring iron, and are especially adapted to the uses of locomotive, car and bridge builders.

We can make these Keys of any length and gauge of iron desired. The length measurements given are from centre of Point to Neck, or under the Eye.





FLAT SPRING
½ inch wide
16 and 17 wire guage
KEYS



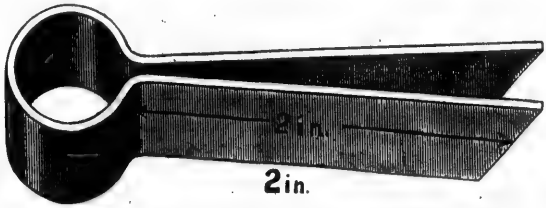
FLAT SPRING KEYS.

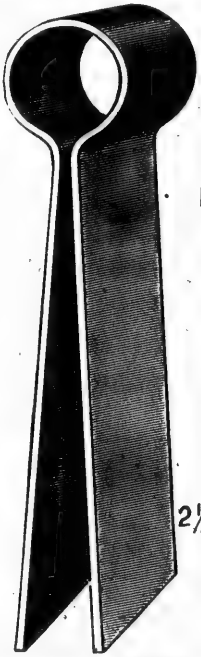
½ Inch Wide—16 and 17 Wire Gauge.

½ × 1¼,	$12 00	per M.
½ × 1½,	13 00	"
½ × 1¾,	14 00	"
½ × 2,	15 00	"
½ × 2¼,	16 00	"
½ × 2½,	17 00	"
½ × 2¾,	18 00	"
½ × 3,	19 00	"

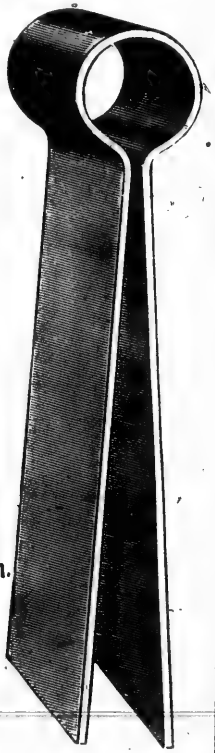
These Keys are made of best quality cold-rolled spring iron, and are especially adapted to the uses of locomotive, car and bridge builders.

We can make these Keys of any length and gauge of iron desired. The length measurements given are from centre of Point to Neck, or under the Eye.





FLAT SPRING
5/8 inch wide
16 and 17 wire guage
KEYS



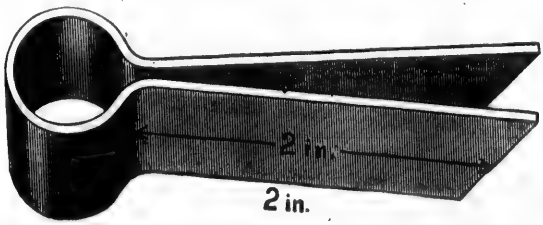
FLAT SPRING KEYS.

5/8 Inch Wide—16 and 17 Wire Gauge.

5/8 × 1¾,	$15 00 per M.
5/8 × 2,	16 00 "
5/8 × 2¼,	17 50 "
5/8 × 2½,	19 00 "
5/8 × 2¾,	20 50 "
5/8 × 3,	22 00 "
5/8 × 3½,	25 00 "

These Keys are made of best quality cold-rolled spring iron, and are especially adapted to the uses of locomotive, car and bridge builders.

We can make these Keys of any length and gauge of iron desired. The length measurements given are from centre of Point to Neck, or under the Eye.


2 in.
2 in.

FLAT SPRING
¾ inch wide
16 and 17 wire guage
KEYS
3 in

FLAT SPRING KEYS.

¾ Inch Wide—16 and 17 Wire Gauge.

¾ × 2,	$19 50 per M.
¾ × 2¼,	21 00 "
¾ × 2½,	22 50 "
¾ × 2¾,	23 75 "
¾ × 3,	25 50 "
¾ × 3½,	28 50 "

These Keys are made of best quality cold-rolled spring iron, and are especially adapted to the uses of locomotive, car and bridge builders.

We can make these Keys of any length and gauge of iron desired. The length measurements given are from centre of Point to Neck, or under the Eye.

We make liberal discounts from the foregoing prices to the Trade, and on orders for large quantities.

We furnish quotations for, and manufacture to order, any sizes of Flat Spring Keys not herein given.

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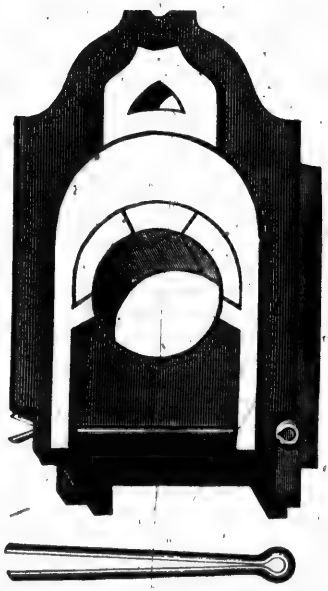
Cellar Box Cotters.

CELLAR BOX COTTERS.



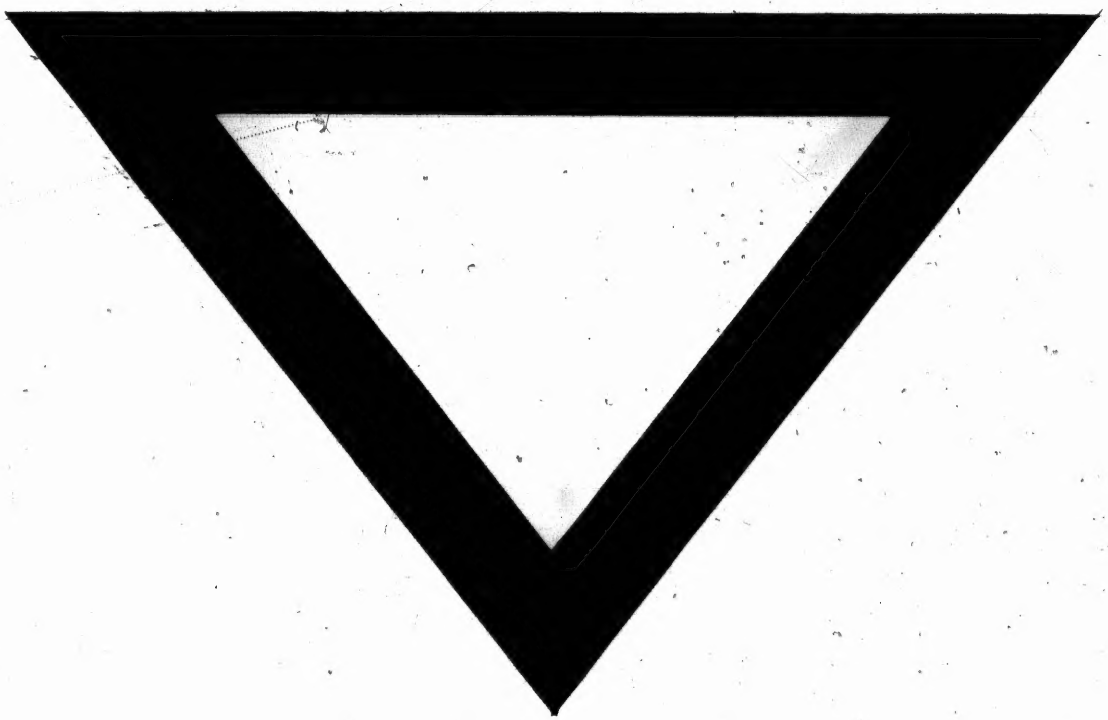
CELLAR BOX COTTERS.

We beg to call attention to an improved method of holding the CELLAR BOX in place on locomotives.

By reference to the cut, it will be seen that the Key passes through the entire length, and spreads just enough to prevent it from rattling out.

The use of these large Cotters is approved by many prominent railroad men and locomotive builders.

These Cotters are made of the best quality half-round iron, and can be furnished in any length desired, upon short notice.

This List is intended to take the place of all others previously issued. They should be destroyed.

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